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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/623,592	07/22/2003	Cheng-Hsien Chou	BHT-3226-39	5852	
	7590 08/24/200 W OFFICE PLLC	EXAMINER			
SUITE 1404		CHẠNG, RICK KILTAE			
5205 LEESBUI FALLS CHUR			ART UNIT PAPER NUMBER 3726		
			MAIL DATE	DELIVERY MODE	
			08/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)				
		10/623,592	CHOU ET AL.				
		Examiner	Art Unit				
		/Chang K. Rick/	3726				
The MAILING DATE of the Period for Reply	is communication ap	pears on the cover sheet	with the correspondence address				
WHICHEVER IS LONGER, FR - Extensions of time may be available under after SIX (6) MONTHS from the mailing d	OM THE MAILING D or the provisions of 37 CFR 1. ate of this communication. the maximum statutory period period for reply will, by statut to three months after the mailing	DATE OF THIS COMMUI 136(a). In no event, however, may will apply and will expire SIX (6) M e, cause the application to become	a reply be timely filed ONTHS from the mailing date of this communicate ABANDONED (35 U.S.C. § 133).				
Status							
1) Responsive to communic	ation(s) filed on <u>30 /</u>	<i>May 2007</i> .					
2a)⊠ This action is FINAL .	This action is FINAL . 2b) ☐ This action is non-final.						
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance wit	n the practice under	Ex parte Quayle, 1935 C	i.D. 11, 453 O.G. 213.				
Disposition of Claims							
4) ☐ Claim(s) <u>2-13</u> is/are pend 4a) Of the above claim(s) 5) ☐ Claim(s) is/are allown 6) ☐ Claim(s) <u>2-6,13</u> is/are rej 7) ☐ Claim(s) is/are object	7-12 is/are withdraw owed. ected to.	n from consideration.					
Application Papers							
9) The specification is object	•		•				
10)☐ The drawing(s) filed on _	is/are: a) 🗌 acc	cepted or b) objected	to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
			ng(s) is objected to. See 37 CFR 1.121 ned Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892 2) Notice of Draftsperson's Patent Draw 3) Information Disclosure Statement(s) Paper No(s)/Mail Date	ing Review (PTO-948)	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application				

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Art Unit: 3726

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/30/07 has been entered.
- 2. All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 2, 6 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Peterson et al (US 4,882,454).

Peterson discloses a sequential build-up of layers (col. 3, lines 61-62) to form a resin layer as a first dielectric layer of inner circuit layers (101 and 105 formed close to 102); forming a circuit layer on the resin layer (101 and 105 formed above); forming a second dielectric layer (col. 3, lines 22-25); col. 2, line 36 discloses epoxy; col. 2, lines 31-35 discloses aramid fiber material.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Peterson et al (US 4,882,454) in view of Nakatani et al (US 6,108,903).

Peterson fails to disclose a liquid epoxy.

Nakatani disclose in col. 10, lines 13-14 a liquid epoxy.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Peterson by providing a liquid epoxy, as taught by Nakatani, for the purpose of reducing the volatile constituent.

7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Peterson et al (US 4,882,454) in view of Cutting et al (US 5,6338,597).

Peterson fails to disclose dry film type epoxy.

Cutting discloses dry film type epoxy (col. 3, line 56).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Peterson by providing dry film type epoxy, as taught by Cutting, for the purpose of providing a good dielectric property.

8. Claim 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peterson et al (US 4,882,454) in view of Kiyota et al (US 5,263,248).

Peterson fails to disclose a resin-impregnated fiberglass fabric.

Kiyota discloses a resin-impregnated fiberglass fabric (col. 3, line 53).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Peterson by providing a resin-impregnated fiberglass fabric, as taught by Kiyota, for the purpose of manufacturing a rigid substrate.

Response to Arguments

9. Applicant's arguments filed 4/23/07 have been fully considered but they are not persuasive.

The examiner maintains his rejection. Epoxy is a resin material.

Interviews After Final

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10. Applicant note that an interview after a final rejection must be submitted briefly in writing the intended purpose and content of the interview (the agenda of the interview must be in writing). Upon review of the agenda, the Examiner may grant the interview if the examiner is convinced that disposal or clarification for appeal may be accomplished with only nominal further consideration. Interviews merely to restate arguments of record or to discuss new limitations will be denied. See MPEP 714.13 and 713.09.

Conclusion

- 11. Please provide reference numerals (either in parentheses next to the claimed limitation or in a table format with one column listing the claimed limitation and another column listing corresponding reference numerals in the remark section of the response to the Office Action) to all the claimed limitations as well as support in the disclosure for better clarity (optional). Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (571) 272-4564. The examiner can normally be reached on 5:30 AM to 1:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David P. Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Rick K. Chang/ Primary Examiner, A.U. 3726

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RC August 6, 2007